

TA-E1

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model



SPECIFICATIONS

Audio section

Harmonic distortion

Less than 0.005%
(at 2 V, THD)

Frequency response

5 Hz ~ 300 kHz
(0 ~ -1 dB)

Signal-to-noise ratio

More than 115 dB
(Input shorted, A-Fil)

Inputs

Input	Sensitivity	Impedance
LINE 1	250 mV	20 kΩ
LINE 2	250 mV	20 kΩ
CD	250 mV	20 kΩ
SACD	250 mV	20 kΩ
BALANCED LINE	250 mV	40 kΩ
DAT/TAPE 1	250 mV	20 kΩ
MD/TAPE 2	250 mV	20 kΩ

Outputs

Output	Voltage	Impedance
PRE OUT	2 V	47 Ω
BALANCED OUT	2 V	220 Ω

General

Power requirements

USA and Canadian
models :
120 V AC, 60Hz
European models :
230 V AC, 50/60Hz

Power consumption

18 W

Dimensions 430 × 108 × 445 mm
(17 × 4 1/4 × 17 1/2 in.)
including projecting
parts and controls

Mass (Approx.)

21.5 kg (47 lb. 06 oz.)

Supplied accessories

Check that you received the following
items with the unit:
• Audio cord (1)
• AC power cord (1)
• AC power plug adapter
(3 to 2 prong polarized type) (1)
(USA/Canada only)

Design and specifications are subject
to change without notice.

STEREO PRE AMPLIFIER

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

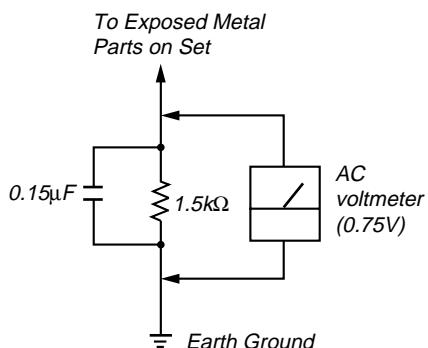


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ▲ OR DOTTED LINE WITH MARK ▲ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ▲ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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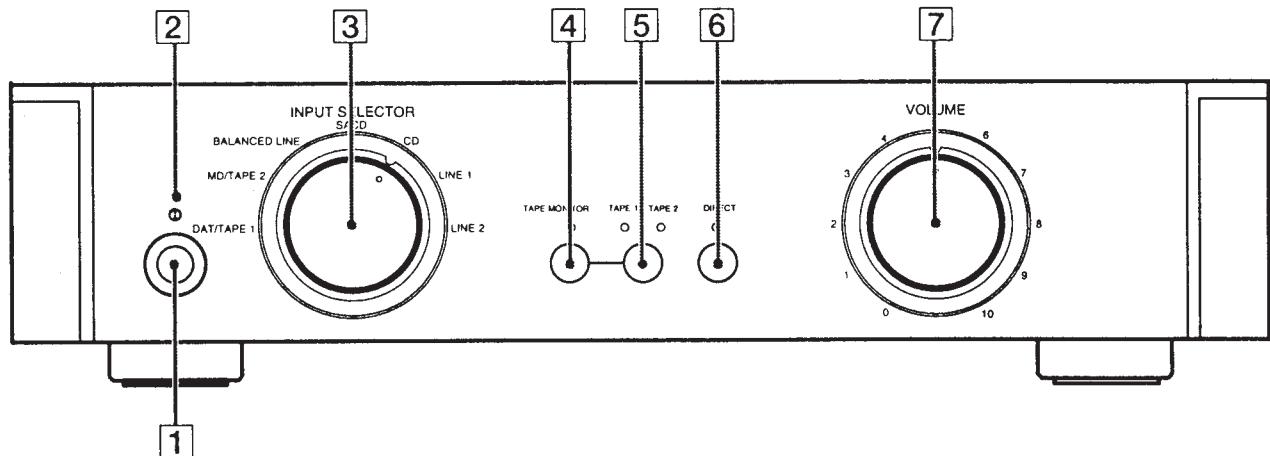
MODEL IDENTIFICATION — BACK PANEL —



PARTS No.	MODEL
4-214-526-1□	US , CND
4-214-526-2□	AEP, UK, E, AUS

- Abbreviation
CND : Canadian model
AUS : Australian model

Front Panel Parts Description



[1] ① (power) switch

Press to turn the preamplifier on and off.

- Before you turn on the preamplifier, make sure that you have turned the VOLUME control to the leftmost position to avoid damaging your speakers.

[2] Power indicator

Lights red for 12 seconds when preamplifier is turned on, and then lights green.

[3] INPUT SELECTOR control

Turn to select the component you want to use.

To select	Turn to light
DAT deck, tape deck 1	DAT/TAPE 1
MD deck	MD/TAPE 2
BALANCED LINE	BALANCED LINE
SACD player	SACD
CD player	CD
LINE 1	LINE 1
LINE 2	LINE 2

After selecting the component, turn on the component you selected and play the program source.

[4] TAPE MONITOR button

Press to turn the tape monitor on and off. The indicator lights when the tape monitor is on and goes out when the tape monitor is turned off.

[5] TAPE MONITOR input select button

When the TAPE MONITOR ([4]) is on, press to select the input from the TAPE 1 or TAPE 2 input jacks. The indicator lights to show which input is selected.

[6] DIRECT button

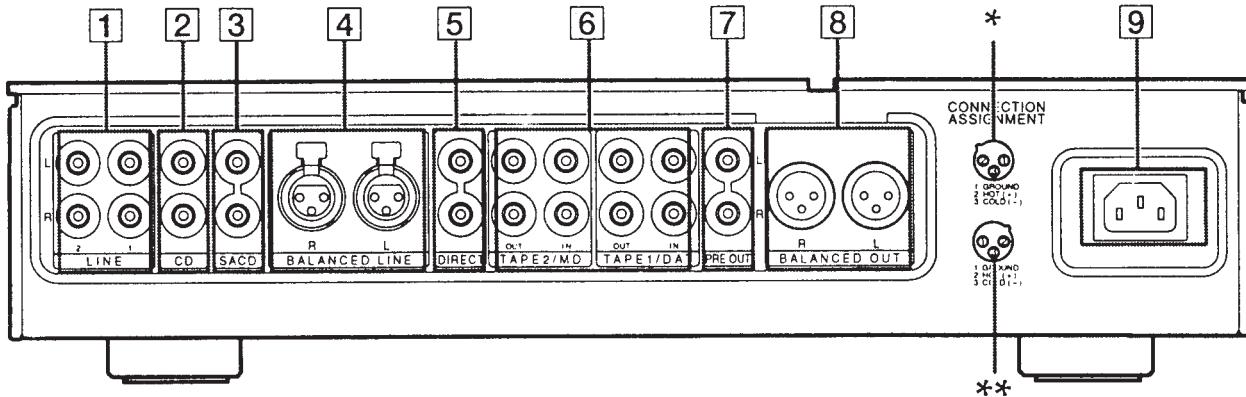
Press to select the input connected to the DIRECT input jacks. The indicator lights, and the source component connected to the DIRECT input jacks takes priority over the source component selected with the INPUT SELECTOR control ([3]).

Press the DIRECT button again to return to the source selected with the INPUT SELECTOR control.

[7] VOLUME control

After turning on the component you selected, turn to adjust the volume.

Rear Panel Parts Description



1 LINE 1/2 input jacks

Connect to the analog audio output jacks of your audio components.

2 CD input jacks

Connect to the audio output jacks of your CD player.

3 SACD input jacks

Connect to the audio output jacks of your SACD player.

4 BALANCED LINE input jacks

Connect to the BALANCED OUT jacks of an audio component that is capable of balanced output (XLR type).

5 DIRECT input jacks

Connect to the analog audio output jacks of your audio components. When a component is connected to these jacks, pressing the DIRECT button to select the component causes the indicator on the front panel to light.

When the DIRECT button is pressed, the component connected to these jacks takes priority over the component selected with the INPUT SELECTOR control.

6 TAPE 2/MD, TAPE 1/DAT IN/OUT jacks

Use to connect the input and output jacks of your DAT deck, MD deck, tape player (etc.).

7 PRE OUT jacks

Connect to your power amplifier(s).

8 BALANCED OUT jacks

Connect to your power amplifier(s) using balanced cords.

* : Displays the pin polarity of the BALANCED LINE jacks.

** : Displays the pin polarity of the BALANCED OUT jacks.

9 AC IN terminal

Connect the supplied power cord to the AC IN terminal and then to the wall outlet to supply power to the unit.

SECTION 2 ELECTRICAL ADJUSTMENTS

IDLING ADJUSTMENT AND OFFSET VOLTAGE CHECK

- Perform this adjustment after replacing CP103 and CP104.
- Perform this adjustment more than 10 minutes after supplying the power.

Connection:



Procedure:

1. Connect the digital voltmeter as shown above.
2. Adjust RV501 (L-CH) and RV502 (R-CH) of the MAIN board so that the digital voltmeter reads $50 \text{ mV} \pm 5 \text{ mV}$. (Idling adjustment)

	Measuring Point	Adjusting Point	Adjusting Value
L-CH	TP501 to TP503	RV501	$50 \text{ mV} \pm 5 \text{ mV}$
R-CH	TP502 to TP504	RV502	$50 \text{ mV} \pm 5 \text{ mV}$

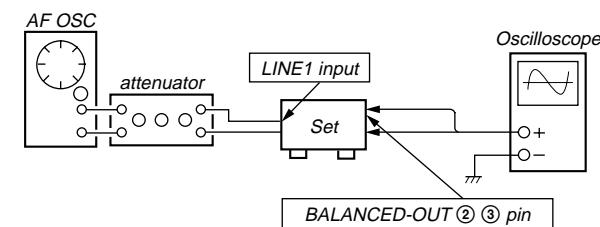
3. Measure the voltage of both terminals of R221 (L-CH) and R222 (R-CH) of the MAIN board, and check that the voltage is within 2 mV.
(Offset voltage check)

	Measuring Point	Specified Value
L-CH	Both terminals of R221	Within 2 mV
R-CH	Both terminals of R222	Within 2 mV

BALANCE OUTPUT LEVEL ADJUSTMENT

- Perform this adjustment when replacing CP102.
- Perform this adjustment after the idling adjustment

Connection:

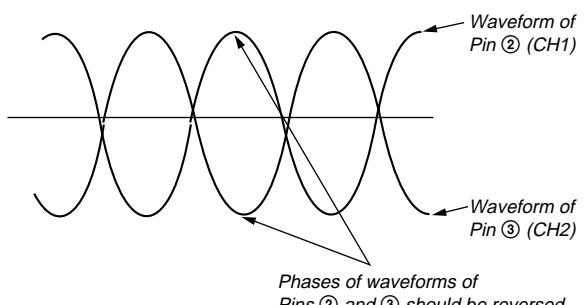


Procedure:

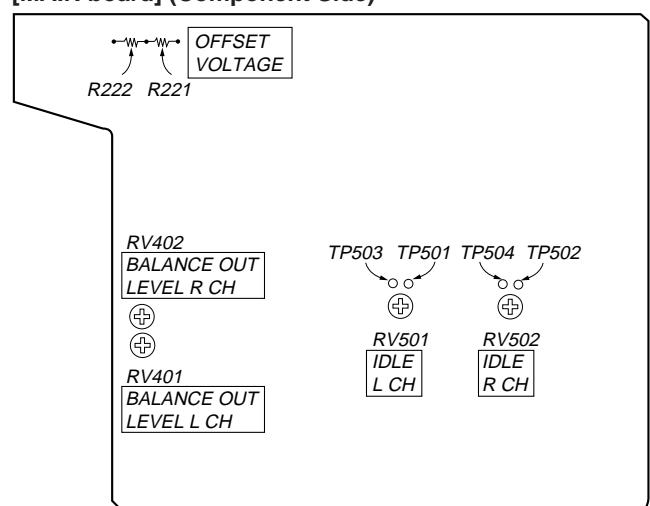
1. Connect as shown above.
2. Rotate the [INPUT SELECTOR] knob, and set the input source to [LINE 1].
3. Set the input level so that the oscilloscope waveform level becomes approx 3 V.
4. Adjust RV401 (L-CH) and RV402 (R-CH) so that the two waveform levels on the oscilloscope become equal and their phases are reversed.

	Adjusting Point	Adjusting Value
L-CH	Pin ② (CH1) and Pin ③ (CH2) of CN203	RV401
R-CH	Pin ② (CH1) and Pin ③ (CH2) of CN203	RV401

Adjusting Value:

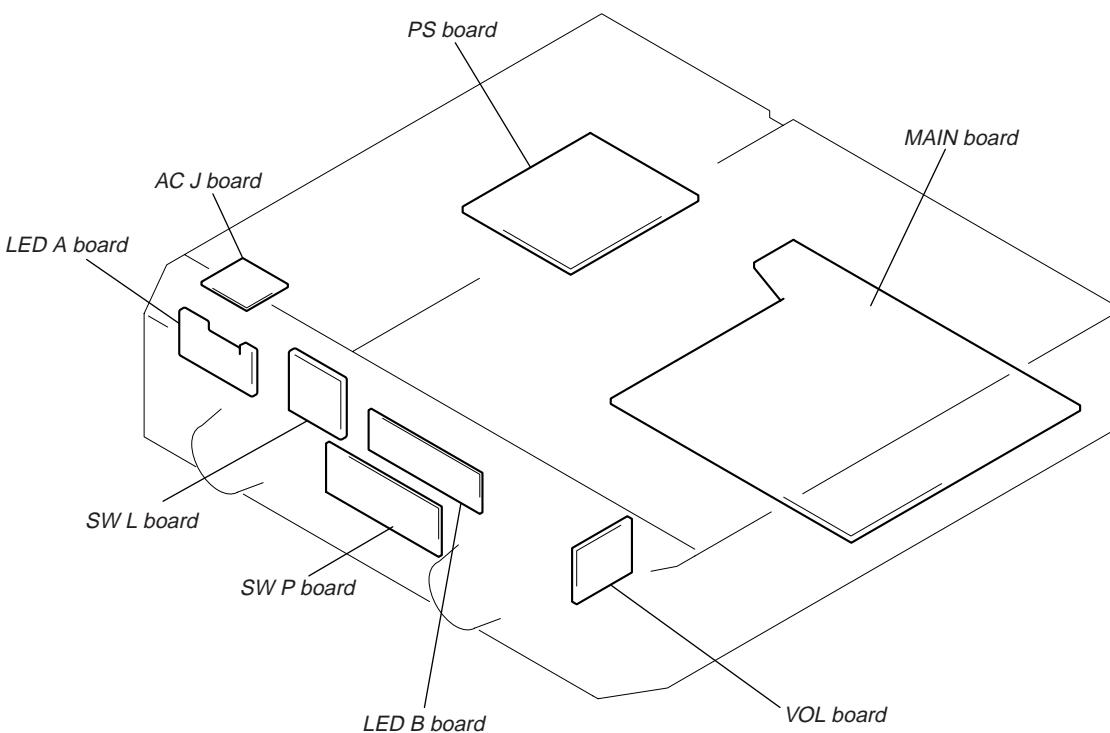


Adjustment Location: [MAIN board] (Component Side)



SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF : μpF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

For printed wiring boards.

Note:

- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:

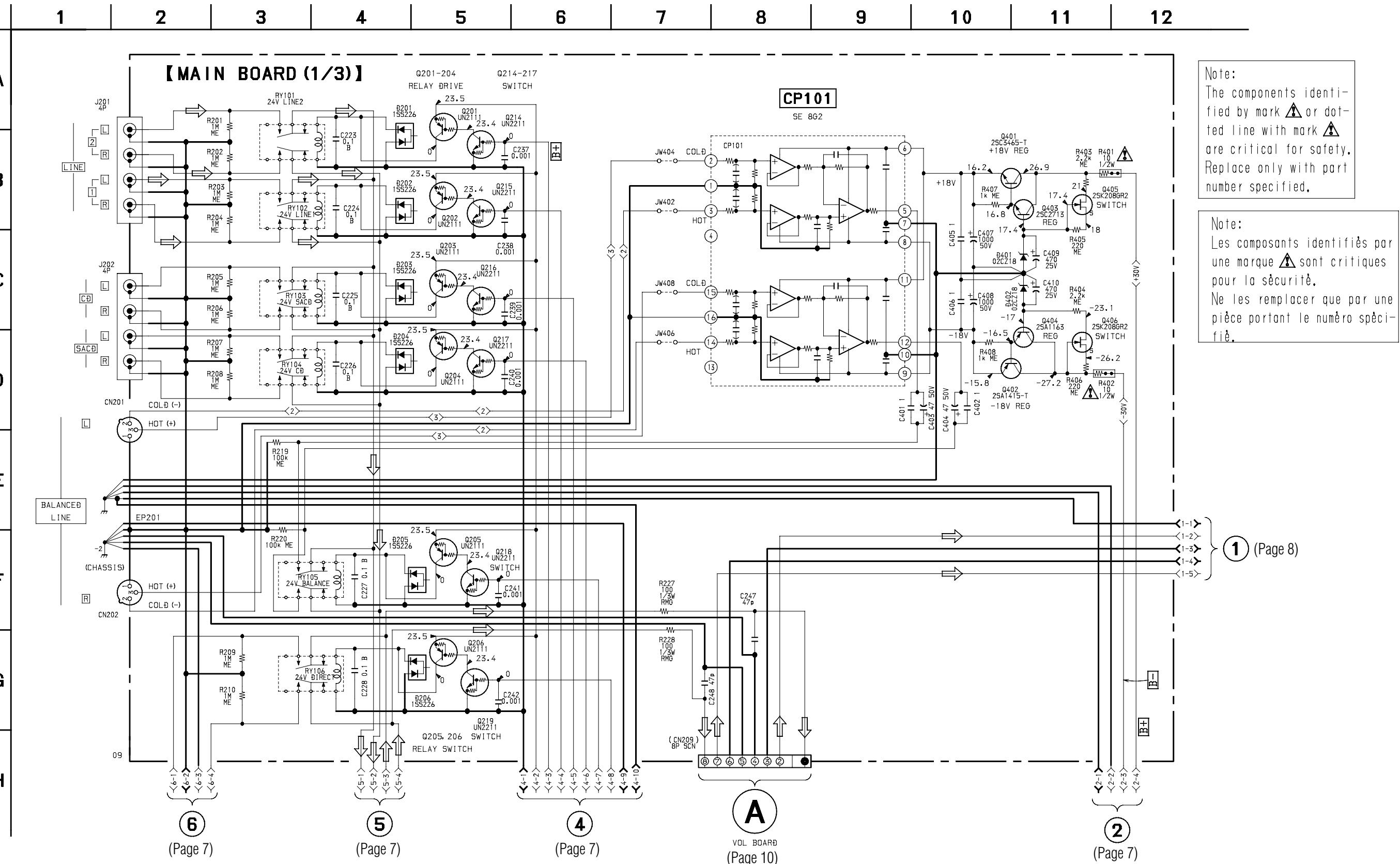
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.

Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

- $\text{B}+$: B+ Line.
- $\text{B}-$: B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground in playback mode.
- Voltages are taken with a VOM (Input impedance $10 \text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 \Rightarrow : TUNER

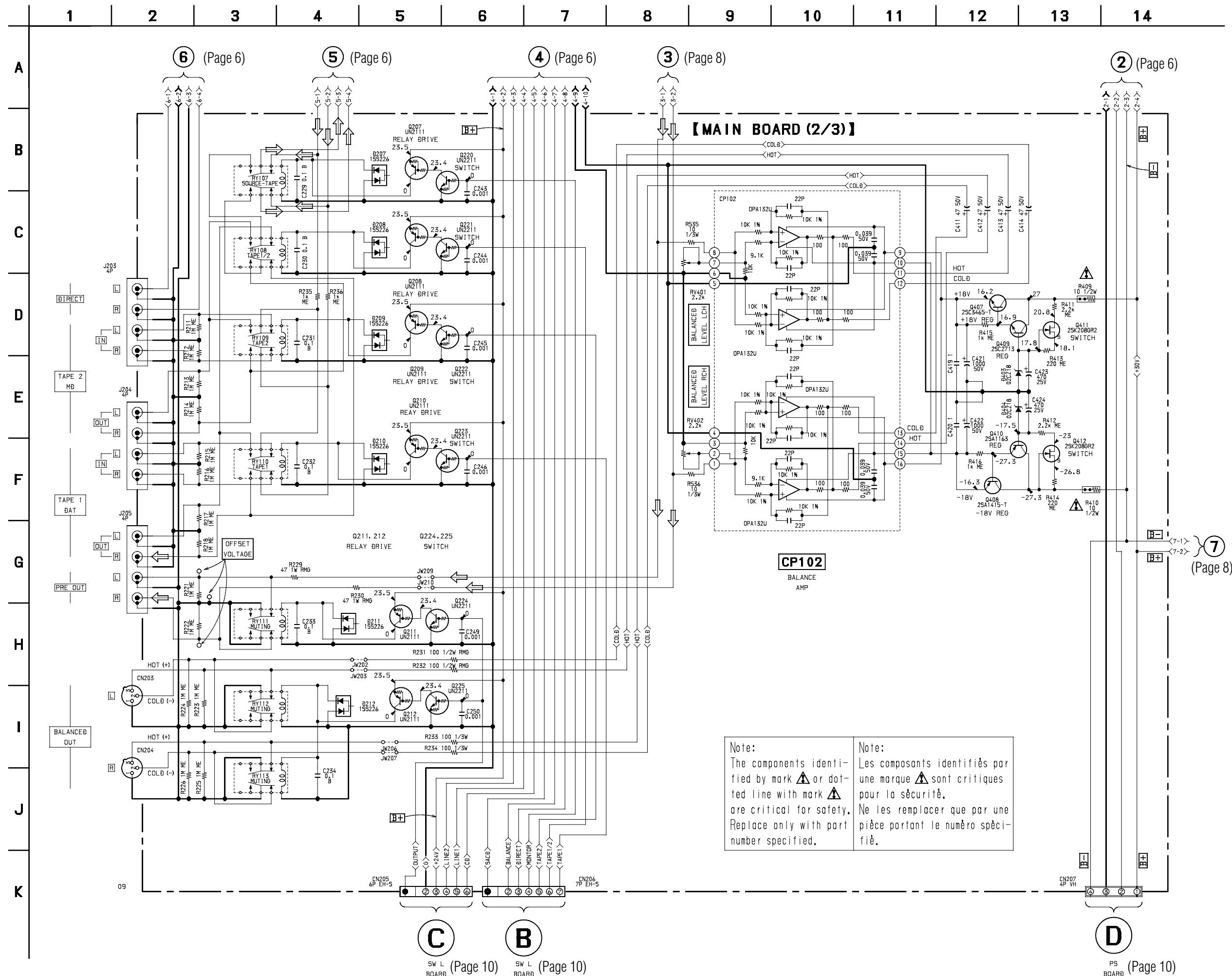
3-2. SCHEMATIC DIAGRAM – MAIN SECTION (1/3) –

• Refer to page 9 for Printed Wiring Board.

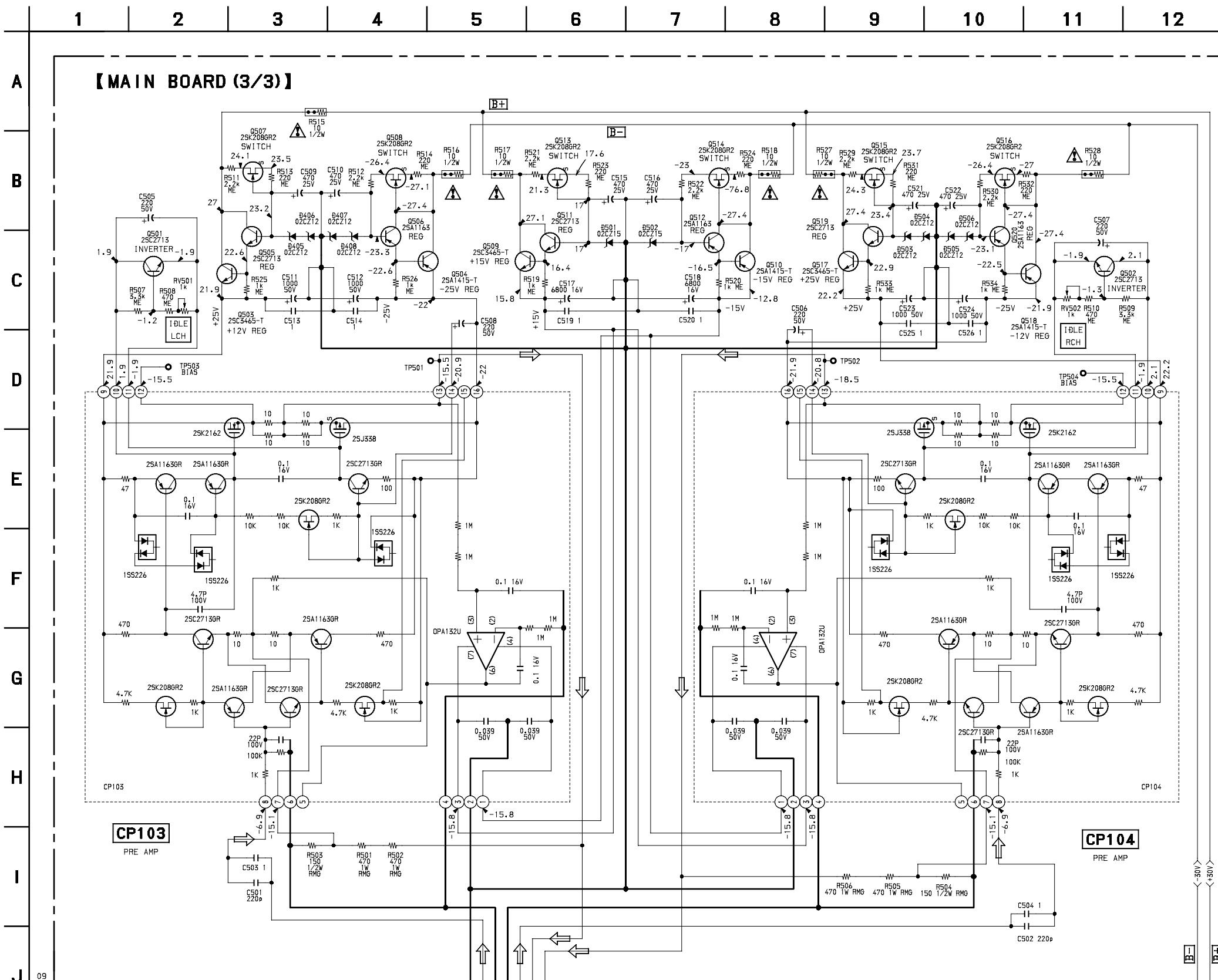


3-3. SCHEMATIC DIAGRAM – MAIN SECTION (2/3) –

• Refer to page 9 for Printed Wiring Board.



3-4. SCHEMATIC DIAGRAM – MAIN SECTION (3/3) –



Note:
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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(Page 7)

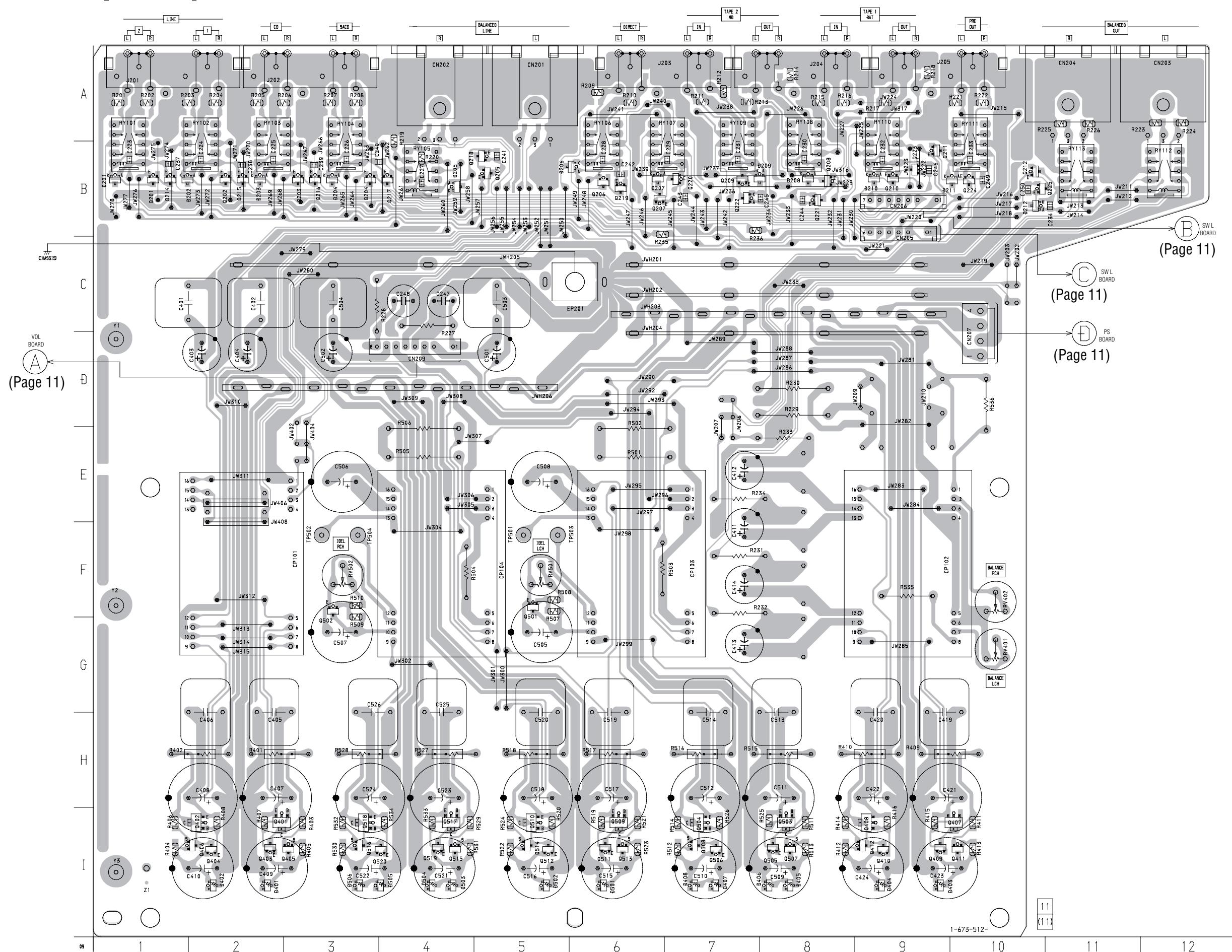
• Semiconductor
Location

Ref. No	Location
D201	B-1
D202	B-1
D203	B-2
D204	B-3
D205	B-4
D206	B-5
D207	B-6
D208	B-8
D209	B-8
D210	B-7
D211	B-10
D212	B-10
D401	I-2
D402	I-2
D403	I-9
D404	I-9
D405	I-8
D406	I-8
D407	I-7
D408	I-7
D501	I-6
D502	I-5
D503	I-4
D504	I-4
D505	I-3
D506	I-4
Q201	B-1
Q202	B-2
Q203	B-3
Q204	B-3
Q205	B-5
Q206	B-6
Q207	B-6
Q208	B-8
Q209	B-7
Q210	B-7
Q211	B-7
Q212	B-10
Q214	B-1
Q215	B-2
Q216	B-3
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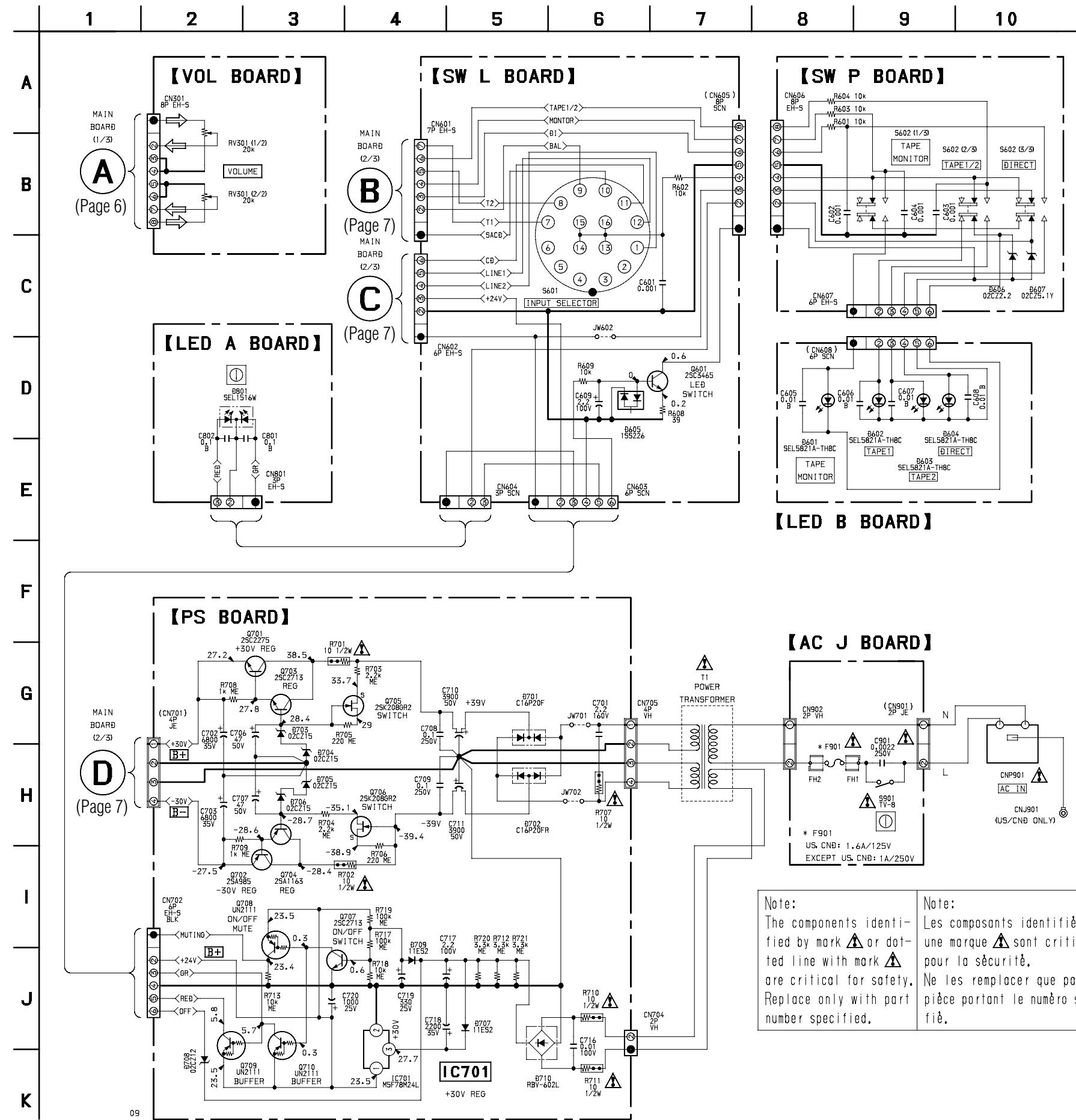
3-5. PRINTED WIRING BOARD – MAIN SECTION –

• Refer to page 5 for Circuit Boards Location.

[MAIN BOARD]

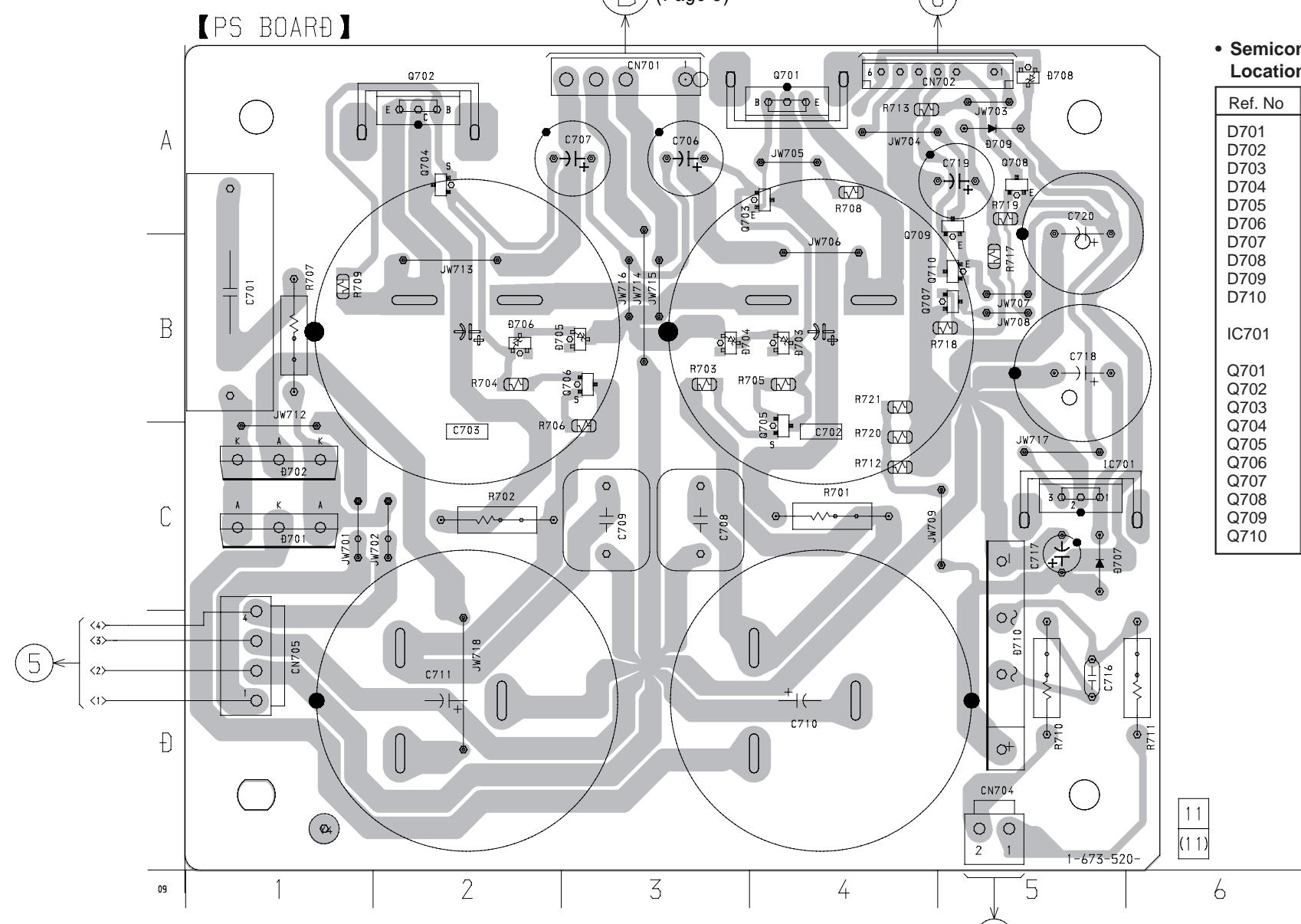
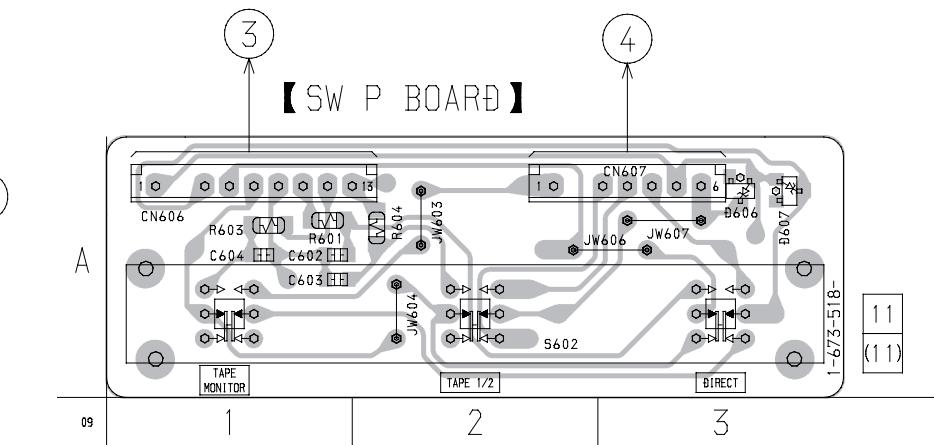
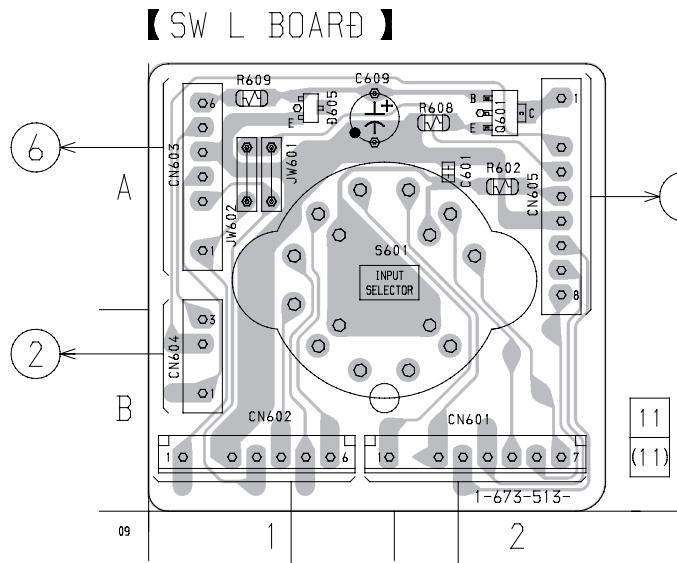
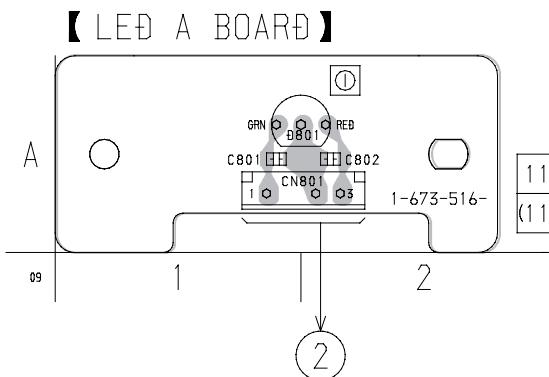
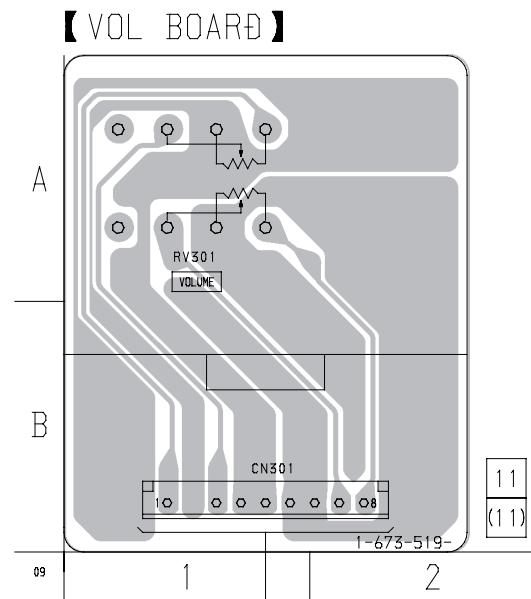


3-6. SCHEMATIC DIAGRAM – POWER SECTION –



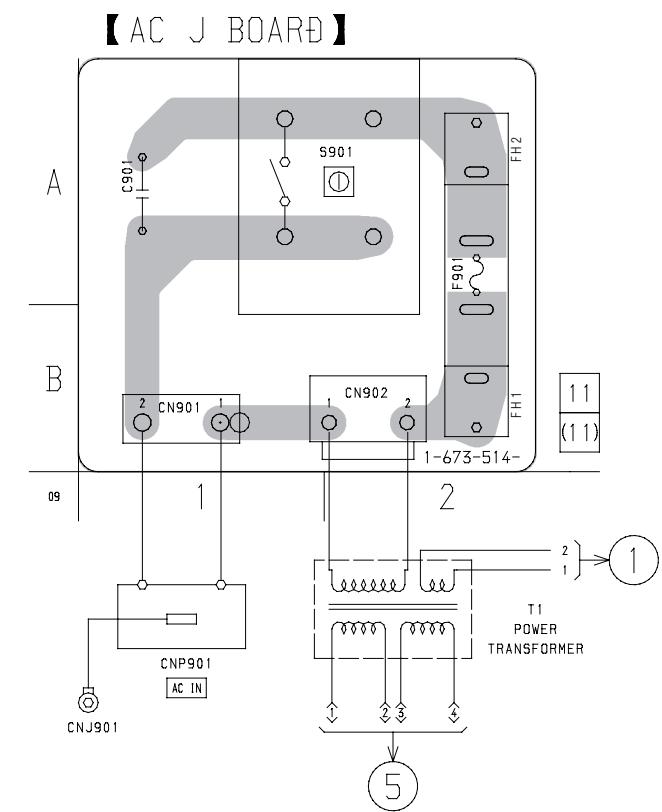
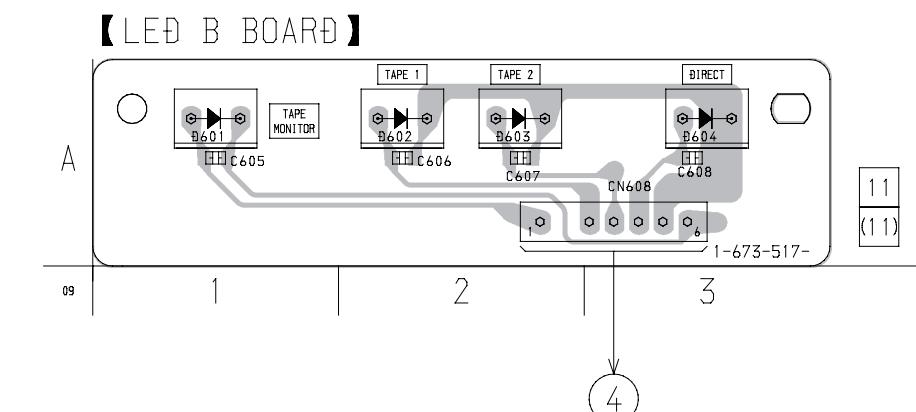
3-7. PRINTED WIRING BOARD - POWER SECTION -

• Refer to page 5 for Circuit Boards Location.



• Semiconductor Location

Ref. No	Location
D701	C-1
D702	C-1
D703	B-4
D704	B-3
D705	B-3
D706	B-2
D707	C-5
D708	A-5
D709	A-5
D710	D-5
IC701	C-5
Q701	A-4
Q702	A-2
Q703	A-4
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Q706	B-3
Q707	B-5
Q708	A-5
Q709	A-5
Q710	B-5

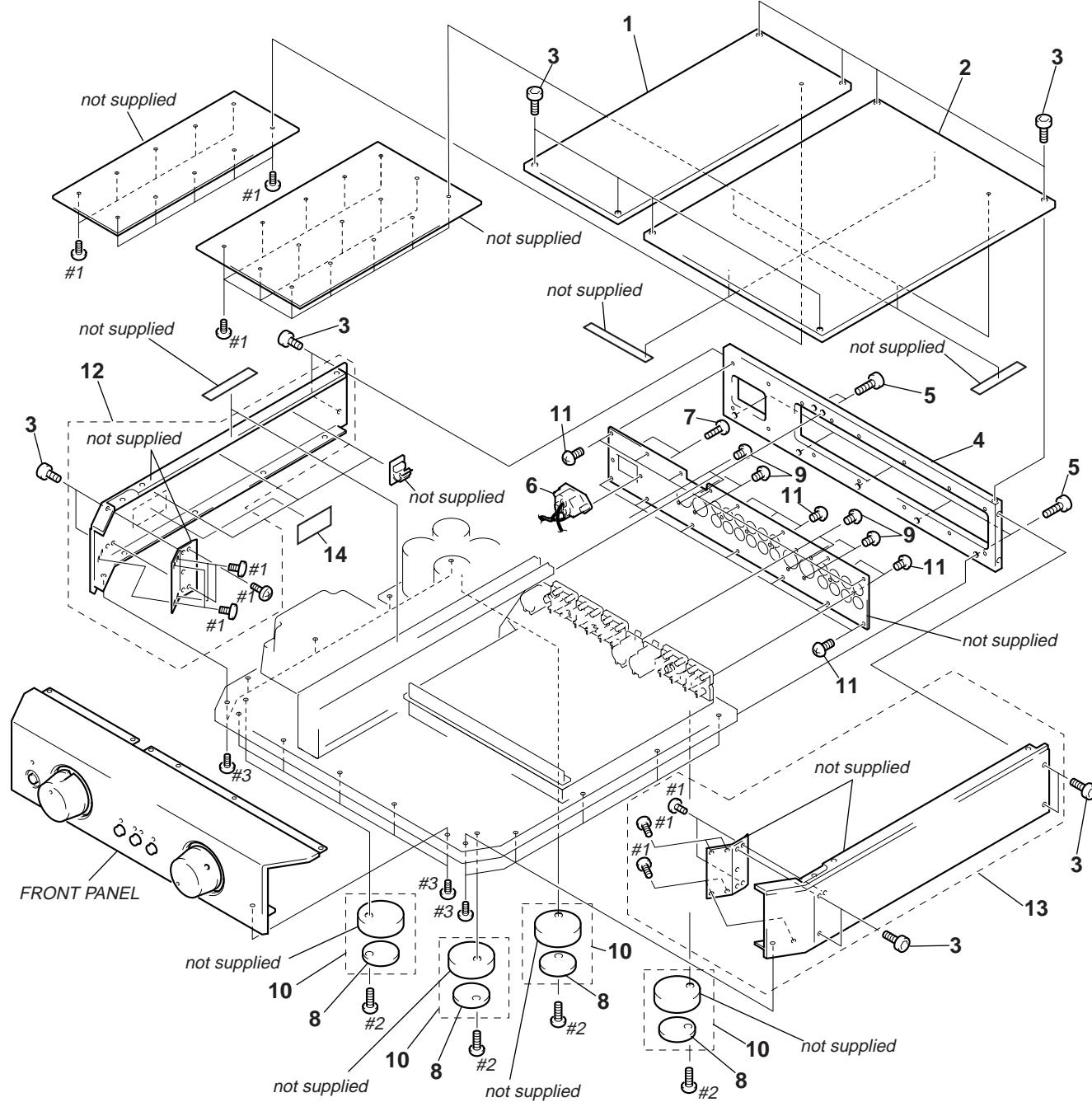


SECTION 4 EXPLODED VIEWS

NOTE:

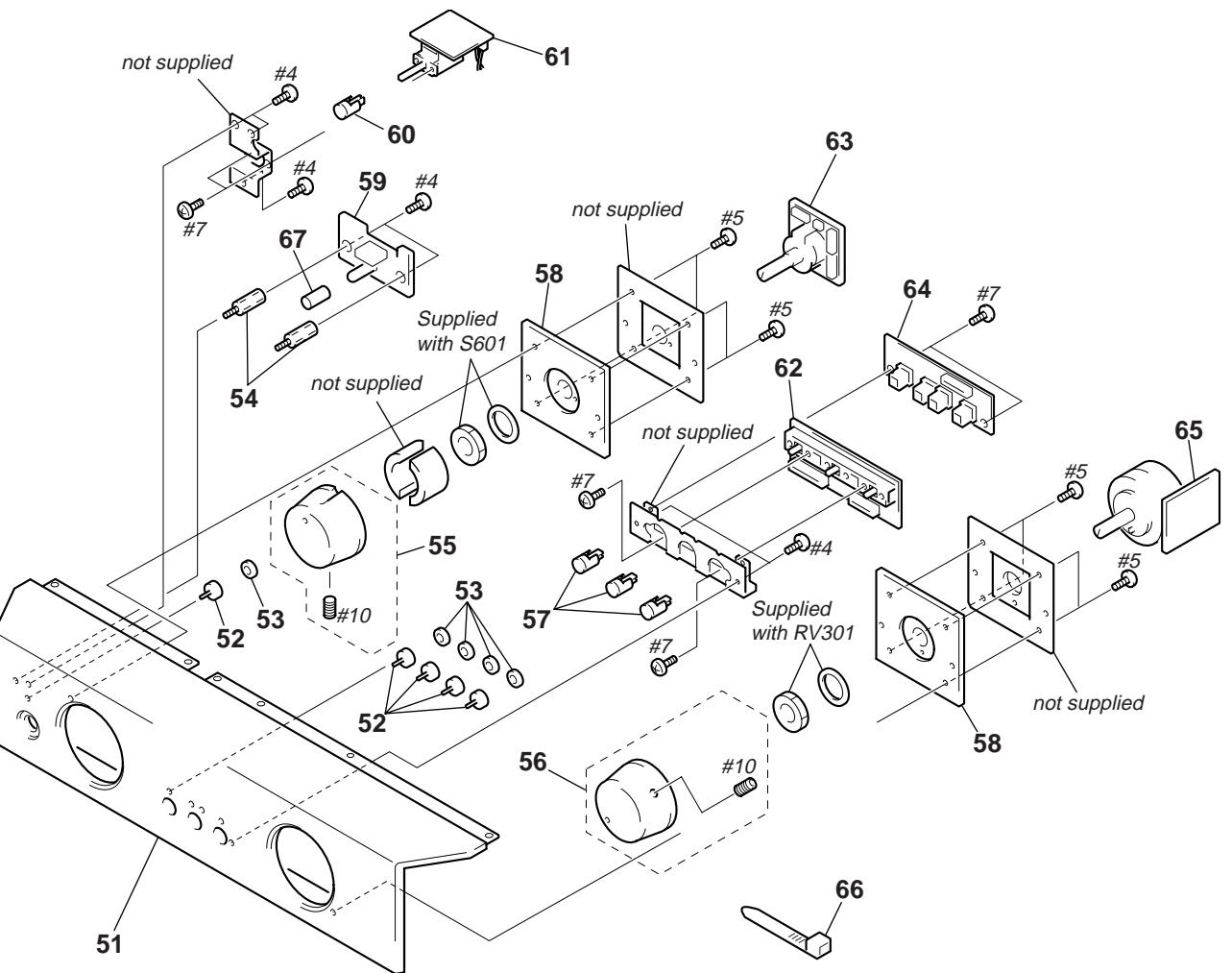
- XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

4-1. TOP PLATE AND BACK PANEL SECTION



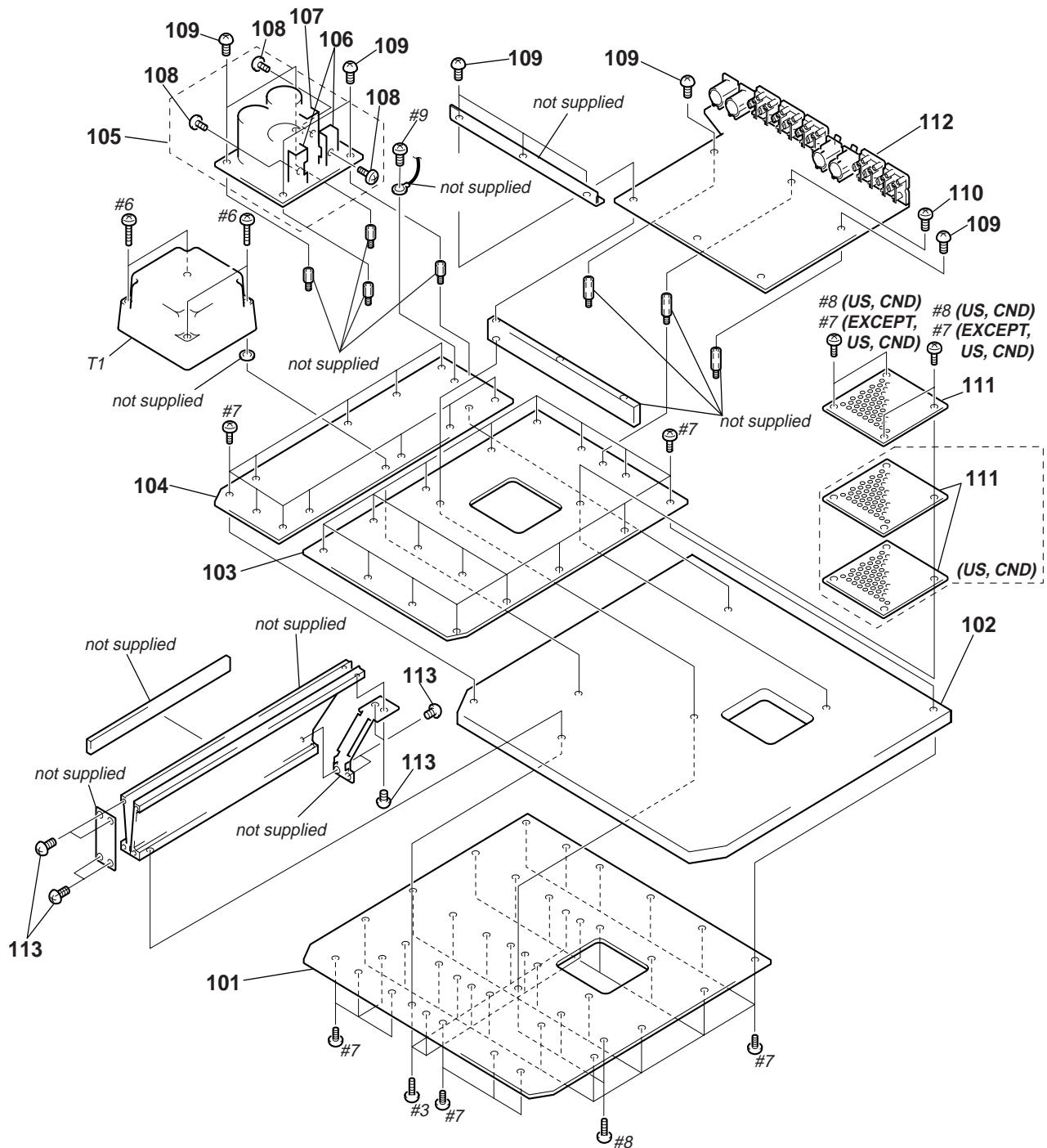
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-214-524-01	PLATE (L), TOP		7	4-911-049-21	SCREW (3X8)	
2	4-214-525-01	PLATE (R), TOP		8	4-970-124-11	CUSHION (F50180S)	
3	4-988-742-11	SCREW (M3X8), HEXAGON SOCKET		9	3-703-685-41	SCREW (A+BV 3X8)	
4	4-214-526-13	PANEL, BACK (US,CND)		10	X-4951-584-1	FOOT ASSY	
4	4-214-526-22	PANEL, BACK (EXCEPT US,CND)		11	4-974-510-01	SCREW (+BV 3X8 CU)	
* 5	3-910-074-01	BOLT (M3)		12	X-4951-020-1	PLATE (L) ASSY,ORNAMENTAL SIDE	
6	1-580-375-41	INLET 3P		13	X-4951-021-1	PLATE (R) ASSY,ORNAMENTAL SIDE	
				* 14	3-703-044-26	LABEL, CAUTION (US,CND)	

4-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-214-521-01	PANEL, FRONT		60	X-4950-854-1	BUTTON ASSY, POWER	
* 52	4-986-734-01	LENS, LED		61	1-673-514-11	AC J BOARD	
53	4-214-533-01	RETAINER, LENS		62	1-673-518-11	SW P BOARD	
54	4-214-620-01	SUPPORT (C)		63	1-673-513-11	SW L BOARD	
55	4-214-532-01	KNOB (VOL)		64	1-673-517-11	LED B BOARD	
56	4-214-545-01	KNOB (SELECTER)		65	1-673-519-11	VOL BOARD	
57	X-4950-674-1	BUTTON ASSY		66	3-655-653-21	BAND (TAITON), BINDING	
58	4-214-535-01	WINDOW, MIRROR		67	4-221-587-01	TUBE, LIGHT INTERCEPTION	
59	1-673-516-11	LED A BOARD (EXCEPT US,CND)					

4-3. BOTTOM PLATE SECTION



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-219-714-01	PLATE (A), BOTTOM		109	4-967-960-01	SCREW (4X8)	
102	4-214-527-01	PLATE, BOTTOM		* 110	4-931-964-01	SCREW (M4X6)	
103	4-219-712-01	PLATE (A), TOP		* 111	1-641-950-11	PC BOARD, BOTTOM LID	
104	4-219-713-01	PLATE (B), TOP		112	A-4426-205-A	MAIN BOARD, COMPLETE (US,CND)	
105	A-4426-207-A	PS BOARD, COMPLETE (US,CND)		112	A-4426-208-A	MAIN BOARD, COMPLETE (EXCEPT US,CND)	
105	A-4426-210-A	PS BOARD, COMPLETE (EXCEPT US,CND)		113	4-974-510-01	SCREW (+BV 3X8 CU)	
* 106	4-941-237-01	HEAT SINK		\triangle T1	1-433-981-11	TRANSFORMER, POWER (EXCEPT US,CND)	
107	4-902-345-01	HEAT SINK		\triangle T1	1-433-982-11	TRANSFORMER, POWER (US,CND)	
108	2-259-121-01	SCREW, TR					

AC J

LED A

LED B

MAIN

SECTION 5

ELECTRICAL PARTS LIST

Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- -XX, -X mean standardized parts, so they may have some difference from the original one.

- Items marked “**” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F : nonflammable

- SEMICONDUCTORS

In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...

- CAPACITORS

μ F : μ F

- COILS

μ H : μ H

- Abbreviation

CND : Canadian model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-673-514-11	AC J BOARD	*****			< DIODE >	
				D601	8-719-046-38	DIODE SEL5821A-TH8F (TAPE MONITOR)	
	1-533-798-11	HOLDER, FUSE		D602	8-719-046-38	DIODE SEL5821A-TH8F (TAPE 1)	
			< CAPACITOR >	D603	8-719-046-38	DIODE SEL5821A-TH8F (TAPE 2)	
	D604	8-719-046-38	DIODE SEL5821A-TH8F (DIRECT)				
△C901	1-113-920-11	CERAMIC	0.0022uF 20% 250V				*****
			< CONNECTOR >		A-4426-205-A	MAIN BOARD, COMPLETE (US,CND)	*****
CN902	1-564-321-00	PIN, CONNECTOR 2P			A-4426-208-A	MAIN BOARD, COMPLETE (EXCEPT US,CND)	*****
			< FUSE >				
△F901	1-532-463-51	FUSE (1A/250)(EXCEPT US,CND)			4-835-639-00	PLATE, GROUND	
△F901	1-532-742-11	FUSE, GLASS TUBE (1.6A/125V)(US,CND)				< CAPACITOR >	
			< SWITCH >	C223	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
△S901	1-771-187-11	SWITCH, AC POWER (①)		C224	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
			*****	C225	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
	1-673-516-11	LED A BOARD	*****	C226	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
			< CAPACITOR >	C227	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C801	1-115-339-11	CERAMIC CHIP	0.1uF 10% 50V	C228	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C802	1-115-339-11	CERAMIC CHIP	0.1uF 10% 50V	C229	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
			< CONNECTOR >	C230	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
CN801	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		C231	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
			< DIODE >	C232	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
D801	8-719-313-40	DIODE SML1516W (①)		C233	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
			*****	C234	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
	1-673-517-11	LED B BOARD	*****	C237	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
			< CAPACITOR >	C238	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C605	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	C239	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C606	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	C240	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C607	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	C241	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C608	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	C242	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
			*****	C243	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
			< CAPACITOR >	C244	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
				C245	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
				C246	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
				C247	1-125-845-21	FILM 47PF 10% 50V	
				C248	1-125-845-21	FILM 47PF 10% 50V	
				C249	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
				C250	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
				C401	1-110-512-51	FILM 1uF 10% 50V	
				C402	1-110-512-51	FILM 1uF 10% 50V	

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C403	1-128-200-11	ELECT	47uF	20%	50V	CP103	1-418-107-11	AMPLIFIER UNIT	
C404	1-128-200-11	ELECT	47uF	20%	50V	CP104	1-418-107-11	AMPLIFIER UNIT	
C405	1-110-512-51	FILM	1uF	10%	50V			< DIODE >	
C406	1-110-512-51	FILM	1uF	10%	50V	D201	8-719-800-76	DIODE 1SS226	
C407	1-128-972-11	ELECT	1000uF	20%	50V	D202	8-719-800-76	DIODE 1SS226	
C408	1-128-972-11	ELECT	1000uF	20%	50V	D203	8-719-800-76	DIODE 1SS226	
C409	1-128-973-11	ELECT	470uF	20%	25V	D204	8-719-800-76	DIODE 1SS226	
C410	1-128-973-11	ELECT	470uF	20%	25V	D205	8-719-800-76	DIODE 1SS226	
C411	1-128-200-11	ELECT	47uF	20%	50V	D206	8-719-800-76	DIODE 1SS226	
C412	1-128-200-11	ELECT	47uF	20%	50V	D207	8-719-800-76	DIODE 1SS226	
C413	1-128-200-11	ELECT	47uF	20%	50V	D208	8-719-800-76	DIODE 1SS226	
C414	1-128-200-11	ELECT	47uF	20%	50V	D209	8-719-800-76	DIODE 1SS226	
C419	1-110-512-51	FILM	1uF	10%	50V	D210	8-719-800-76	DIODE 1SS226	
C420	1-110-512-51	FILM	1uF	10%	50V	D211	8-719-800-76	DIODE 1SS226	
C421	1-128-972-11	ELECT	1000uF	20%	50V	D212	8-719-800-76	DIODE 1SS226	
C422	1-128-972-11	ELECT	1000uF	20%	50V	D401	8-719-025-51	DIODE 02CZ18-TE85L	
C423	1-128-973-11	ELECT	470uF	20%	25V	D402	8-719-025-51	DIODE 02CZ18-TE85L	
C424	1-128-973-11	ELECT	470uF	20%	25V	D403	8-719-025-51	DIODE 02CZ18-TE85L	
C501	1-125-850-21	FILM	220PF	5%	50V	D404	8-719-025-51	DIODE 02CZ18-TE85L	
C502	1-125-850-21	FILM	220PF	5%	50V	D405	8-719-025-47	DIODE 02CZ12-TE85L	
C503	1-110-512-51	FILM	1uF	10%	50V	D406	8-719-025-47	DIODE 02CZ12-TE85L	
C504	1-110-512-51	FILM	1uF	10%	50V	D407	8-719-025-47	DIODE 02CZ12-TE85L	
C505	1-128-971-11	ELECT	220uF	20%	50V	D408	8-719-025-47	DIODE 02CZ12-TE85L	
C506	1-128-971-11	ELECT	220uF	20%	50V	D501	8-719-025-51	DIODE 02CZ18-TE85L	
C507	1-128-971-11	ELECT	220uF	20%	50V	D502	8-719-025-51	DIODE 02CZ18-TE85L	
C508	1-128-971-11	ELECT	220uF	20%	50V	D503	8-719-025-47	DIODE 02CZ12-TE85L	
C509	1-128-973-11	ELECT	470uF	20%	25V	D504	8-719-025-47	DIODE 02CZ12-TE85L	
C510	1-128-973-11	ELECT	470uF	20%	25V	D505	8-719-025-47	DIODE 02CZ12-TE85L	
C511	1-128-972-11	ELECT	1000uF	20%	50V	D506	8-719-025-47	DIODE 02CZ12-TE85L	
C512	1-128-972-11	ELECT	1000uF	20%	50V			< JACK >	
C513	1-110-512-51	FILM	1uF	10%	50V				
C514	1-110-512-51	FILM	1uF	10%	50V				
C515	1-128-973-11	ELECT	470uF	20%	25V	J201	1-785-547-11	JACK, PIN (LINE 1, 2 L/R)	
C516	1-128-973-11	ELECT	470uF	20%	25V	J202	1-785-547-11	JACK, PIN (CD, SACD L/R)	
C517	1-126-017-11	ELECT	6800uF	20%	16V	J203	1-785-547-11	JACK, PIN (DIRECT L/R, TAPE2/MID IN L/R)	
C518	1-126-017-11	ELECT	6800uF	20%	16V	J204	1-785-547-11	JACK, PIN (TAPE2/MID OUT L/R, TAPE1/DAT IN L/R)	
C519	1-110-512-51	FILM	1uF	10%	50V	J205	1-785-547-11	JACK, PIN (TAPE1/DAT OUT L/R, PRE OUT L/R)	
C520	1-110-512-51	FILM	1uF	10%	50V			< BUS BAR >	
C521	1-128-973-11	ELECT	470uF	20%	25V				
C522	1-128-973-11	ELECT	470uF	20%	25V				
C523	1-128-972-11	ELECT	1000uF	20%	50V	* JWH201	1-569-135-11	BAR, BUS 4P	
C524	1-128-972-11	ELECT	1000uF	20%	50V	* JWH202	1-569-135-11	BAR, BUS 4P	
C525	1-110-512-51	FILM	1uF	10%	50V	* JWH203	1-691-275-11	BUS BAR	
C526	1-110-512-51	FILM	1uF	10%	50V	* JWH204	1-569-135-11	BAR, BUS 4P	
					* JWH205	1-569-135-11	BAR, BUS 4P		
					* JWH206	1-691-275-11	BUS BAR		
< CONNECTOR >									
CN201	1-766-803-11	CONNECTOR (CANON)						< TRANSISTOR >	
CN202	1-766-803-11	CONNECTOR (CANON)							
CN203	1-785-548-11	CONNECTOR (RECEPTACLE)				Q201	8-729-424-08	TRANSISTOR	UN2111
CN204	1-785-548-11	CONNECTOR (RECEPTACLE)				Q202	8-729-424-08	TRANSISTOR	UN2111
CN205	1-691-768-11	PLUG (MICRO CONNECTOR) 6P				Q203	8-729-424-08	TRANSISTOR	UN2111
CN206	1-691-769-11	PLUG (MICRO CONNECTOR) 7P				Q204	8-729-424-08	TRANSISTOR	UN2111
* CN207	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P				Q205	8-729-424-08	TRANSISTOR	UN2111
< COMPOSITION CIRCUIT BLOCK >									
CP101	1-233-250-11	ENCAPSULATED COMPONENT				Q206	8-729-424-08	TRANSISTOR	UN2111
CP102	1-418-106-11	AMPLIFIER UNIT				Q207	8-729-424-08	TRANSISTOR	UN2111
						Q208	8-729-424-08	TRANSISTOR	UN2111
						Q209	8-729-424-08	TRANSISTOR	UN2111
						Q210	8-729-424-08	TRANSISTOR	UN2111

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q211	8-729-424-08	TRANSISTOR	UN2111	R211	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q212	8-729-424-08	TRANSISTOR	UN2111	R212	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q214	8-729-421-22	TRANSISTOR	UN2211	R213	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q215	8-729-421-22	TRANSISTOR	UN2211	R214	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q216	8-729-421-22	TRANSISTOR	UN2211	R215	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q217	8-729-421-22	TRANSISTOR	UN2211	R216	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q218	8-729-421-22	TRANSISTOR	UN2211	R217	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q219	8-729-421-22	TRANSISTOR	UN2211	R218	1-260-020-11	CARBON MELF	1M 2% 1/8W
Q220	8-729-421-22	TRANSISTOR	UN2211	R219	1-260-020-11	CARBON MELF	100K 2% 1/8W
Q221	8-729-421-22	TRANSISTOR	UN2211	R220	1-260-020-11	CARBON MELF	100K 2% 1/8W
Q222	8-729-421-22	TRANSISTOR	UN2211	R221	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q223	8-729-421-22	TRANSISTOR	UN2211	R222	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q224	8-729-421-22	TRANSISTOR	UN2211	R223	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q225	8-729-421-22	TRANSISTOR	UN2211	R224	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q401	8-729-047-96	TRANSISTOR	2SC3645-S	R225	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q402	8-729-047-94	TRANSISTOR	2SA1415-S	R226	1-260-032-11	CARBON MELF	1M 2% 1/8W
Q403	8-729-271-31	TRANSISTOR	2SC2713-G	R227	1-249-186-11	CARBON	100 1% 1/3W
Q404	8-729-216-31	TRANSISTOR	2SA1163-G	R228	1-249-186-11	CARBON	100 1% 1/3W
Q405	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R229	1-259-644-11	CARBON	47 2% 1W
Q406	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R230	1-259-644-11	CARBON	47 2% 1W
Q407	8-729-047-96	TRANSISTOR	2SC3645-S	R231	1-259-531-11	CARBON	100 1% 1/2W
Q408	8-729-047-94	TRANSISTOR	2SA1415-S	R232	1-259-531-11	CARBON	100 1% 1/2W
Q409	8-729-271-31	TRANSISTOR	2SC2713-G	R233	1-249-186-11	CARBON	100 1% 1/3W
Q410	8-729-216-31	TRANSISTOR	2SA1163-G	R234	1-249-186-11	CARBON	100 1% 1/3W
Q411	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R235	1-259-995-11	CARBON MELF	1K 2% 1/8W
Q412	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R236	1-259-995-11	CARBON MELF	1K 2% 1/8W
Q501	8-729-271-31	TRANSISTOR	2SC2713-G	△ R401	1-202-937-41	FUSIBLE	10 5% 1/2W
Q502	8-729-271-31	TRANSISTOR	2SC2713-G	△ R402	1-202-937-41	FUSIBLE	10 5% 1/2W
Q503	8-729-047-96	TRANSISTOR	2SC3645-S	R403	1-259-999-11	CARBON MELF	2.2K 2% 1/8W
Q504	8-729-047-94	TRANSISTOR	2SA1415-S	R404	1-259-999-11	CARBON MELF	2.2K 2% 1/8W
Q505	8-729-271-31	TRANSISTOR	2SC2713-G	R405	1-259-987-11	CARBON MELF	220 2% 1/8W
Q506	8-729-216-31	TRANSISTOR	2SA1163-G	R406	1-259-987-11	CARBON MELF	220 2% 1/8W
Q507	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R407	1-259-995-11	CARBON MELF	1K 2% 1/8W
Q508	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R408	1-259-995-11	CARBON MELF	1K 2% 1/8W
Q509	8-729-047-96	TRANSISTOR	2SC3645-S	△ R409	1-202-937-41	FUSIBLE	10 5% 1/2W
Q510	8-729-047-94	TRANSISTOR	2SA1415-S	△ R410	1-202-937-41	FUSIBLE	10 5% 1/2W
Q511	8-729-271-31	TRANSISTOR	2SC2713-G	R411	1-259-999-11	CARBON MELF	2.2K 2% 1/8W
Q512	8-729-216-31	TRANSISTOR	2SA1163-G	R412	1-259-999-11	CARBON MELF	2.2K 2% 1/8W
Q513	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R413	1-259-987-11	CARBON MELF	220 2% 1/8W
Q514	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R414	1-259-987-11	CARBON MELF	220 2% 1/8W
Q515	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R415	1-259-995-11	CARBON MELF	1K 2% 1/8W
Q516	8-729-232-69	TRANSISTOR	2SK208-GRT5LSONY-1	R416	1-259-995-11	CARBON MELF	1K 2% 1/8W
Q517	8-729-047-96	TRANSISTOR	2SC3645-S	R501	1-259-668-61	CARBON	470 2% 1W
Q518	8-729-047-94	TRANSISTOR	2SA1415-S	R502	1-259-668-61	CARBON	470 2% 1W
Q519	8-729-271-31	TRANSISTOR	2SC2713-G	R503	1-259-535-61	CARBON	150 1% 1/2W
Q520	8-729-216-31	TRANSISTOR	2SA1163-G	R504	1-259-535-61	CARBON	150 1% 1/2W
		< RESISTOR >		R505	1-259-668-61	CARBON	470 2% 1W
				R506	1-259-668-61	CARBON	470 2% 1W
				R507	1-260-002-11	CARBON MELF	3.3K 2% 1/8W
R201	1-260-032-11	CARBON MELF	1M 2% 1/8W	R508	1-259-991-11	CARBON MELF	470 2% 1/8W
R202	1-260-032-11	CARBON MELF	1M 2% 1/8W	R509	1-260-002-11	CARBON MELF	3.3K 2% 1/8W
R203	1-260-032-11	CARBON MELF	1M 2% 1/8W	R510	1-259-991-11	CARBON MELF	470 2% 1/8W
R204	1-260-032-11	CARBON MELF	1M 2% 1/8W	R511	1-259-999-11	CARBON MELF	2.2K 2% 1/8W
R205	1-260-032-11	CARBON MELF	1M 2% 1/8W	R512	1-259-999-11	CARBON MELF	2.2K 2% 1/8W
R206	1-260-032-11	CARBON MELF	1M 2% 1/8W	R513	1-259-987-11	CARBON MELF	220 2% 1/8W
R207	1-260-032-11	CARBON MELF	1M 2% 1/8W	R514	1-259-987-11	CARBON MELF	220 2% 1/8W
R208	1-260-032-11	CARBON MELF	1M 2% 1/8W	△ R515	1-202-937-41	FUSIBLE	10 5% 1/2W
R209	1-260-032-11	CARBON MELF	1M 2% 1/8W				
R210	1-260-032-11	CARBON MELF	1M 2% 1/8W				

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
▲ R516	1-202-937-41	FUSIBLE	10	5%	1/2W	< CAPACITOR >					
▲ R517	1-202-937-41	FUSIBLE	10	5%	1/2W	C701	1-136-880-11	FILM	2.2uF	10%	160V
▲ R518	1-202-937-41	FUSIBLE	10	5%	1/2W	C702	1-128-998-11	ELECT	6800uF	20%	35V
R519	1-259-995-11	CARBON MELF	1K	2%	1/8W	C703	1-128-998-11	ELECT	6800uF	20%	35V
R520	1-259-995-11	CARBON MELF	1K	2%	1/8W	C706	1-128-200-11	ELECT	47uF	20%	50V
R521	1-259-999-11	CARBON MELF	2.2K	2%	1/8W	C707	1-128-200-11	ELECT	47uF	20%	50V
R522	1-259-999-11	CARBON MELF	2.2K	2%	1/8W	C708	1-117-775-31	FILM	0.1uF	10%	250V
R523	1-259-987-11	CARBON MELF	220	2%	1/8W	C709	1-117-775-31	FILM	0.1uF	10%	250V
R524	1-259-987-11	CARBON MELF	220	2%	1/8W	C710	1-127-982-11	ELECT	3900uF	20%	50V
R525	1-259-995-11	CARBON MELF	1K	2%	1/8W	C711	1-127-981-11	ELECT	3900uF	20%	50V
R526	1-259-995-11	CARBON MELF	1K	2%	1/8W	C716	1-130-955-11	FILM	0.01uF	2%	100V
▲ R527	1-202-937-41	FUSIBLE	10	5%	1/2W	C717	1-119-847-11	ELECT	2.2uF	20%	100V
▲ R528	1-202-937-41	FUSIBLE	10	5%	1/2W	C718	1-119-815-21	ELECT	2200uF	20%	35V
R529	1-259-999-11	CARBON MELF	2.2K	2%	1/8W	C719	1-126-025-11	ELECT	330uF	20%	25V
R530	1-259-999-11	CARBON MELF	2.2K	2%	1/8W	C720	1-119-804-21	ELECT	1000uF	20%	25V
R531	1-259-987-11	CARBON MELF	220	2%	1/8W	< CONNECTOR >					
R532	1-259-987-11	CARBON MELF	220	2%	1/8W	CN702	1-564-510-11	PLUG (MICRO CONNECTOR) 6P			
R533	1-259-995-11	CARBON MELF	1K	2%	1/8W	CN704	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
R534	1-259-995-11	CARBON MELF	1K	2%	1/8W	* CN705	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P			
R535	1-249-162-11	CARBON	10	1%	1/3W	< DIODE >					
R536	1-249-162-11	CARBON	10	1%	1/3W	D701	8-719-200-39	DIODE C16P20F			
< VARIABLE RESISTOR >						D702	8-719-200-40	DIODE C16P20FR			
RV401	1-224-250-11	RES, ADJ, METAL GLAZE 2.2K (BALANCED LEVEL LCH)				D703	8-719-025-49	DIODE 02CZ15-TE85L			
RV402	1-224-250-11	RES, ADJ, METAL GLAZE 2.2K (BALANCED LEVEL RCH)				D704	8-719-025-49	DIODE 02CZ15-TE85L			
RV501	1-224-249-11	RES, ADJ, METAL GLAZE 1K (IDLER LCH)				D705	8-719-025-49	DIODE 02CZ15-TE85L			
RV502	1-224-249-11	RES, ADJ, METAL GLAZE 1K (IDLER RCH)				D706	8-719-025-49	DIODE 02CZ15-TE85L			
< RELAY >						D707	8-719-200-82	DIODE 11ES2			
RY101	1-755-062-11	RELAY				D708	8-719-025-47	DIODE 02CZ12-TE85L			
RY102	1-755-062-11	RELAY				D709	8-719-200-82	DIODE 11ES2			
RY103	1-755-062-11	RELAY				D710	8-719-070-64	DIODE RBV-602L			
RY104	1-755-062-11	RELAY				< IC >					
RY105	1-755-062-11	RELAY				IC701	8-759-605-03	IC M5F78M24L			
< TEST PIN >						< TRANSISTOR >					
* TP501	3-657-235-00	POINT, TEST				Q701	8-729-141-58	TRANSISTOR 2SC2275A-Q			
* TP502	3-657-235-00	POINT, TEST				Q702	8-729-141-10	TRANSISTOR 2SA985A-Q			
* TP503	3-657-235-00	POINT, TEST				Q703	8-729-271-31	TRANSISTOR 2SC2713-G			
* TP504	3-657-235-00	POINT, TEST				Q704	8-729-216-31	TRANSISTOR 2SA1163-G			
*****						Q705	8-729-232-69	TRANSISTOR 2SK208-GRT5LSONY-1			
RY111	1-755-062-11	RELAY				Q706	8-729-232-69	TRANSISTOR 2SK208-GRT5LSONY-1			
RY112	1-755-062-11	RELAY				Q707	8-729-271-31	TRANSISTOR 2SC2713-G			
RY113	1-755-062-11	RELAY				Q708	8-729-424-08	TRANSISTOR UN2111			
< TEST PIN >						Q709	8-729-424-08	TRANSISTOR UN2111			
*****						Q710	8-729-424-08	TRANSISTOR UN2111			
< RESISTOR >						▲ R701	1-202-937-41	FUSIBLE 10 5% 1/2W			
*****						▲ R702	1-202-937-41	FUSIBLE 10 5% 1/2W			
A-4426-207-A PS BOARD, COMPLETE (US,CND)						R703	1-259-999-11	CARBON MELF 2.2K 2% 1/8W			
*****						R704	1-259-999-11	CARBON MELF 2.2K 2% 1/8W			
A-4426-210-A PS BOARD, COMPLETE (EXCEPT US,CND)						R705	1-259-987-11	CARBON MELF 220 2% 1/8W			
*****						R706	1-259-987-11	CARBON MELF 220 2% 1/8W			
A-4426-210-A PS BOARD, COMPLETE (EXCEPT US,CND)						▲ R707	1-202-937-41	FUSIBLE 10 5% 1/2W			
*****						R708	1-259-995-11	CARBON MELF 1K 2% 1/8W			

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TA-E1

PS **SW L** **SW P** **VOL**

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark								
R709	1-259-995-11	CARBON MELF	1K	2%	1/8W			< RESISTOR >											
△R710	1-202-937-41	FUSIBLE	10	5%	1/2W			R601	1-260-008-11	CARBON MELF	10K	2%	1/8W						
△R711	1-202-937-41	FUSIBLE	10	5%	1/2W			R603	1-260-008-11	CARBON MELF	10K	2%	1/8W						
R712	1-260-002-11	CARBON MELF	3.3K	2%	1/8W			R604	1-260-008-11	CARBON MELF	10K	2%	1/8W						
R713	1-260-008-11	CARBON MELF	10K	2%	1/8W			< SWITCH >											
R717	1-260-020-11	CARBON MELF	100K	2%	1/8W			S602	1-771-567-11	SWITCH, PUSH (3 KEY)	(TAPE MONITOR, TAPE 1/2, DIRECT)								
R718	1-260-008-11	CARBON MELF	10K	2%	1/8W														
R719	1-260-020-11	CARBON MELF	100K	2%	1/8W														
R720	1-260-002-11	CARBON MELF	3.3K	2%	1/8W														
R721	1-260-002-11	CARBON MELF	3.3K	2%	1/8W														

1-673-519-11 VOL BOARD																			

1-673-513-11 SW L BOARD																			

< CAPACITOR >																			
C601	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V			CN301	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	< VARIABLE RESISTOR >								
C609	1-119-847-11	ELECT	2.2uF	20%	100V			RV301	1-225-742-11	RES, VAR, CARBON 20K/20K									
< CONNECTOR >																			
CN601	1-691-769-11	PLUG (MICRO CONNECTOR) 7P					MISCELLANEOUS												
CN602	1-691-768-11	PLUG (MICRO CONNECTOR) 6P					*****												
< DIODE >																			
D605	8-719-800-76	DIODE 1SS226					6	1-580-375-41	INLET 3P										
< TRANSISTOR >							△T1	1-433-981-11	TRANSFORMER, POWER (EXCEPT US,CND)										
							△T1	1-433-982-11	TRANSFORMER, POWER (US,CND)										

Q601	8-729-047-96	TRANSISTOR	2SC3645-S			ACCESSORIES & PACKING MATERIALS		*****											
< RESISTOR >																			
R602	1-260-008-11	CARBON MELF	10K	2%	1/8W	1-506-411-21	ADAPTOR, AC PLUG 3P-2P(US,CND)												
R608	1-259-978-11	CARBON MELF	39	2%	1/8W	1-551-631-22	CORD, POWER (EXCEPT US,CND)												
R609	1-260-008-11	CARBON MELF	10K	2%	1/8W	1-551-812-11	CORD, POWER (US,CND)												
< SWITCH >																			
S601	1-771-566-11	SWITCH, ROTARY (INPUT SELECTOR)					1-558-271-11	CORD, CONNECTION (AUDIO, 108cm)											
*****							3-866-956-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH)											
*****							3-866-956-21 MANUAL, INSTRUCTION (GERMAN,SPANISH, DUTCH,SWEDISH,ITALIAN,PORTUGUESE)(EXCEPT US,CND)		*****										

1-673-518-11 SW P BOARD																			

< CAPACITOR >																			
C602	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	#1	7-621-775-10	SCREW +B 2.6X4											
C603	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	#2	7-682-566-04	SCREW +B 4X20											
C604	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	#2	7-682-567-09	SCREW +B 4X25 (US,CND)											
< CONNECTOR >																			
CN606	1-691-770-11	PLUG (MICRO CONNECTOR) 8P					#3	7-682-549-04	SCREW +B 3X10										
CN607	1-691-768-11	PLUG (MICRO CONNECTOR) 6P					#4	7-621-770-87	SCREW +B 2.6X5										
< DIODE >							#5	7-621-770-XX	SCREW +B 2.6X8										
D606	8-719-025-19	DIODE 02CZ2.2-TE85L					#6	7-682-571-09	+B 4X45 (EXCEPT US,CND)										
D607	8-719-043-82	DIODE 02CZ5.1Y-TE85L					#7	7-685-871-09	SCREW +BVTT 3X6 (S)										
< DIODE >							#8	7-682-550-09	SCREW +B 3X12										
							#9	7-682-962-01	+PSW 4X10										
#10 7-683-255-58 SET SCREW 5X6 HEXAGON SOCKET																			
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